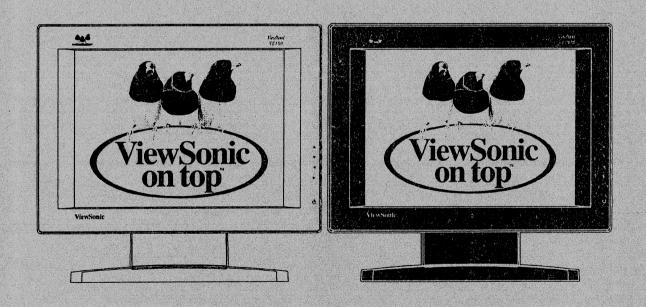
# Service Manual

# ViewSonic VE150 & VE150B Model No. VLCDS21533-1(b)

15" Color TFT LCD Display



(VE150\_SM\_35 - Rev. 2 - June 2000)

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#### VE150 Service Manual

#### 1. PRECAUTION AND NOTICES

#### 1.1. SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as to the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

#### WARNINGS:

- This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ♦ Use only the special power adapter that comes with this monitor for power input.
- Do not try to repair the monitor yourself as it contains no user-serviceable parts. This
  monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- Stop using the monitor if the cabinet is damaged. Have it checked by a service technacian.
- Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth.
   Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ♦ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- Do not place heavy objects on the monitor or power cord.

#### 1.2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

#### 1.3. SERVICE NOTES

- When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
- When replacing a high wattage resistor (more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
- 3. Keep wires away from high voltage, high temperature components and sharp edges.

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- 4. Keep wires in their original position so as to reduce interference.
- 5. Usage of this product please refer to also user's manual.

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#### 2. SERVICE TOOL & EQUIPMENT REQUIRED

- 1. SIGNAL GEN.
- 2. MULTIMETER
- 3. OSCILLOSCOPE
- 4. SCREW DRIVER
- 5. IRON
- 6. ABSORBER
- 7. SOLDER
- 8. DUMMY LOAD (5Ω/200W)

#### 3. SPECIFICATIONS

#### 3.1. PRODUCT SPECIFICATIONS

LCD Panel

15.0" TFT

Power Management

Energy Star compliant VESA

DPMS compatible

< 5W

Displayable Resolution

XVGA 1024×768 max.

Pixel Dimension

0.297×0.297mm (15.1" TFT)

LCD Display Color

16.7M Color Max. (18bit)

Viewing Angle

CR≥5

Horizontal: -60°+60°

Vertical: -55°+45°

Tilt

+15°, -5°

Contrast Ratio

350 : 1 (typ.)

Brightness

200 cd/m<sup>2</sup> (typ.)

Response Time

Tr: 13 ms Tf: 27ms

Active Display Area

304.1mm×228.1mm

\_

Operating: 0°C ~ +35°C

Temperature

Storage: -20°C ~ +60°C

Compliance

UL, CDA, DHHS, TÜV, CE, FCC-B, VDE-B, Energy Star.

Power

Voltage: 100~240 V

Consumption: 30 Watts

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#### 3.2. FACTORY PRESET MODE TIMING CHART

WITEM #	THE REST	TANK DESIGN	MAN 107 Z 1078	THE THE	Carlo Maria
TIMING	640×400 70HZ	640×480 60HZ	640×480 67HZ	640×480 75HZ	800×600 60HZ
Pixel Rate	25.175MHZ	25.175MHZ	30.240MHZ	31.500MHZ	40.000MHZ
H TOTAL	31.778us	31.778us	28.571us	26.667us	26.400us
H DISPLAY	25.422us	25.422us	21.164us	20.317us	20.000us
H B-Porch	1.907us	1.907us	3.175us	3.810us	2.200us
H Width	3.813us	3.813us	2.116us	2.032us	3.200us
H Border	0.318us	0.318us	0.000us	0.000us	0.000us
V TOTAL	14.268ms	16.683ms	15.000ms	13.334ms	16.579ms
V DISPLAY	12.711ms	15.253ms	13.714ms	12.800ms	15.840ms
V B-Porch	1.112ms	1.049ms	1.114ms	0.427ms	0.607ms
Vs Width	0.064ms	0.064ms	0.086ms	0.080ms	0.106ms
V Border	0.222ms	0.254ms	0.000ms	0.000ms	0.000ms
H/V Sync	-/+	-/-	-/-	-/-	+/+
Interlace	No.	No.	No.	No.	No.

ITEM **	6	學物學行業。指於	1 128	"神师"	TO WE
TIMING	800×600 75HZ	832×624 74.5HZ	1024×768 60HZ	1024×768 75HZ	1024×768 75Hz
Pixel Rate	48.500MHZ	57.280MHZ	65.000MHZ	78.750MHZ	80.0000MHz
H TOTAL	21.333us	20.112us	20.677us	16.660us	16.600us
H DISPLAY	16.162us	14.525us	15.754us	13.003us	12.800us
H B-Porch	3.232us	3.77 lus	2.462us	2.235us	2.200us
H Width	1.616us	1.118us	2.092us	1.219us	1.200us
H Border	0.000us	0.000us	0.000us	0.000us	0.000us
V TOTAL	13.333ms	13.417ms	16.666ms	13.328ms	13.346ms
V DISPLAY	12.800ms	12.552ms	15.880ms	12.795ms	12.749ms
V B-Porch	0.448ms	0.784ms	0.600ms	0.466ms	0.498ms
Vs Width	0.064ms	0.060ms	0.124ms	0.050ms	0.050ms
V Border	0.000ms	0.00ms	0.000ms	0.000ms	0.000ms
H/V Sync	+/+	-/-	-/-	+/+	-/-
Interlace	No.	No.	No.	No.	No.

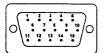
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#### 3.3. D-SUB CONNECTOR

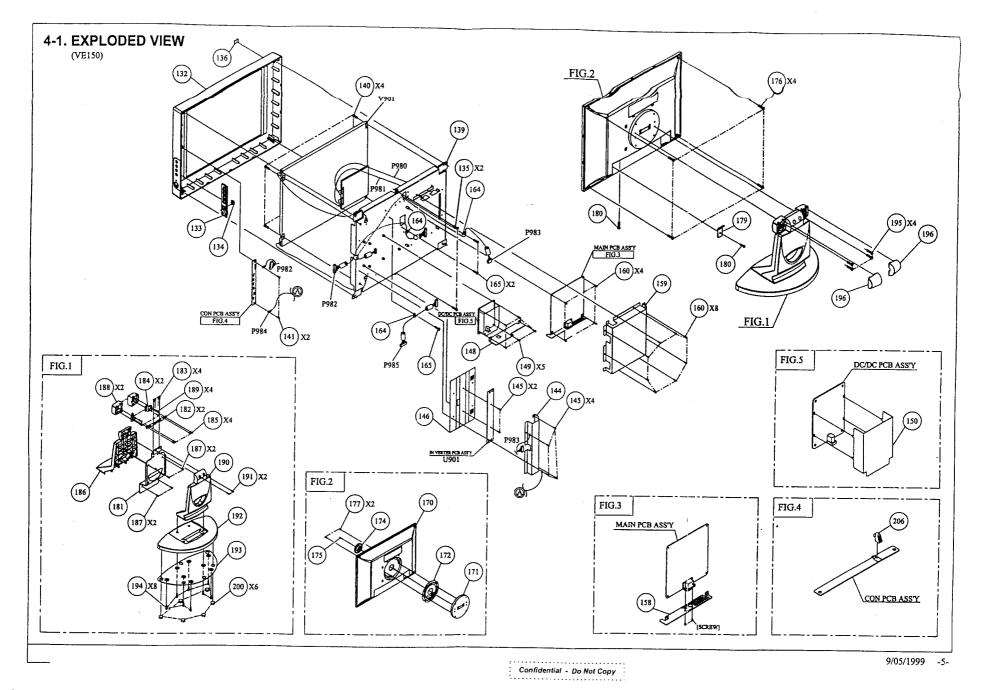
#### **D-SUB 15 PIN CONNECTOR**



1.R 6.GND 11.GND 2.G 7.GND 12.SDA 3.B 8.GND 13.H.SYNC 4.GND 9. NC 14.V.SYNC 5.NC 10.GND 15.SCL

#### SIGNAL LEVEL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
В	BLUE	0.7vp-p(VIDEO)
Н	H/SYNC	TTL positive or negative
v	V/SYNC	TTL positive or negative
SDA DDC1/2B		TTL
SCL DDC1/2B		TTL



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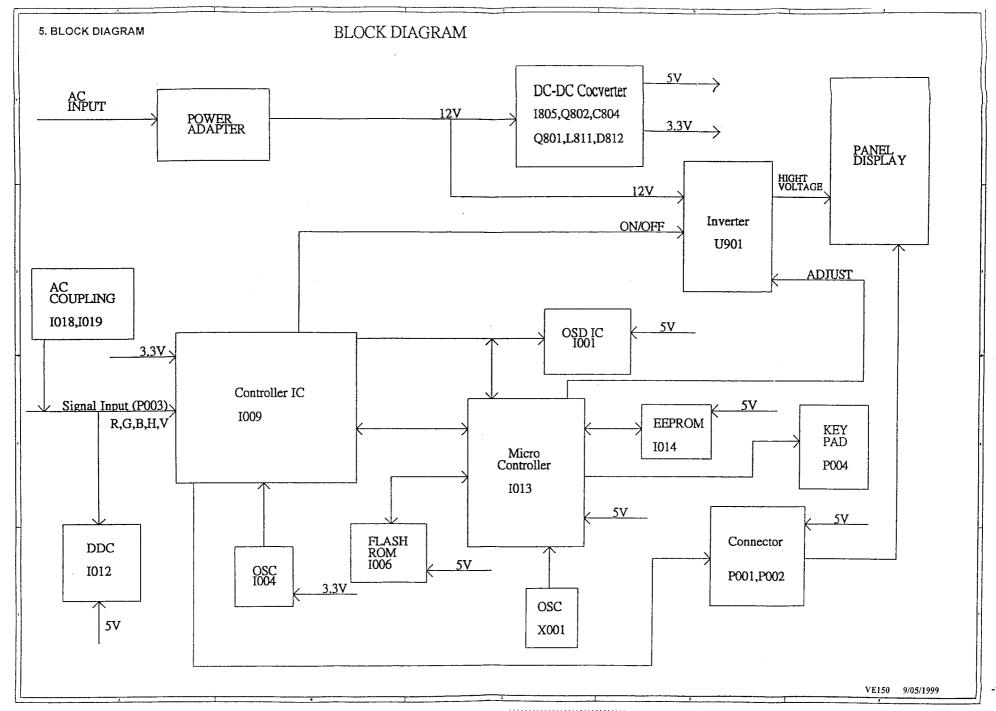
#### 4-2. EXPLODED VIEW PARTS LIST

Ref. No.	Source	Part No.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
132		2024256304	PANEL	JT156E V.S VE150 PC+ABS/GY7521	I	Bik P/N - 202425630:
133		2046254202	PUSH BUTTON	JT156E PC+ABS/GY7521	1	
134		2053255400	INDICATOR	JT156E2 POWER LED PMMA 94HB	1	
135		2084730082	SCREW, BND T+	M3X8(BND T+)	2	
136	ł i	2051350200	NAME PLATE	JD144V3 VIEWSONIC 3BIRDS AL	1	
139		2071852700	BRACKET,FIX	JT156E SECC 1.2t 15LCD MITSUBI	1	
140	l i	2085730082	SCREW,B OTW+	SCREW B OTW+ M3X8	4	
141		2084730082	SCREW,BND T+	M3X8(BND T+)	2	
144		2071653700	SHIELD PLATE	JT156E SPTE t=0.3 FOR INVERTER	1	
145		2082730062	SCREW,BND+	M3X6(BND+)	6	
146		2072450100	INSULATOR	JT146E1 PVC 185LX25.3WX0.2tmm	1	
148		2071853600	BRACKET,FIX	JT156E SECC1.2t BKT-POWER TCO	1	
149		2082730062	SCREW,BND+	M3X6(BND+)	5	
150	i	2071654600	SHIELD PLATE	JT156E SPTE 0.3t	1	
158		2071852900	BRACKET,FIX	JT156E SECC 1.21 BKT-SIGNAL	1	
159		2071653600	SHIELD PLATE	JT156E SPTE T=0.3 FOR CTRL	1	
160		2082730062	SCREW,BND+	M3X6(BND+)	12	i
164		2071651900	SHIELD PLATE	JT156A PBSP T=0.5mmd= φ 4.4mm	3	
165		2082730062	SCREW,BND+	M3X6(BND+)	3	
170	1	2022254503	CABI BACK	JT156E PC+ABS/GY7521		Blk P/N - 202225450
171	- 1	2108251402	SWIVEL	JT156E PC+ABS/GY7521		
172	- 1	2071853000	BRACKET,FIX	JT156E SECC 1.2i BKT-SWIVEL	1	
174	- 1	2074156200		JT156E2 D15H DURAOON M90		
175	- 1	2084740142		M4X14(BND T+)		
176	i	2082730122	SCREW,BND+	M3X12(BND+)	4	
177	- 1	2084730082	SCREW, BND T+	M3X8(BND T+)	2	
179	1	2025250102	LID	JT156E PC+ABS/GY7521	1	
180.	- 1	2082730062	SCREW,BND+	M3X6(BND+)	2	
181	- 1	2071852300	BRACKET,FIX	jt156e2 bracket(arm) secc t=2	1	
182		2106650200	HINGE	JT156E LCD HINGE T:25-30KGF.CM	2	
183		2085740102	SCREW,B OTW+	SCREW B OTW+ M4X10	4	
184		2071852500	BRACKET,FIX	JT156E2 BRACKET(HINGE)SECC t=2	2	
185		2085740102	SCREW,B OTW+	SCREW B OTW+ M4X10	4	
186	1	2028550302	ARM	JT156E ARM(F) PC+ABS/GY7521	1	
187	- 1	2084740102	SCREW, BND T+	M4X10(BND T+)	4	
188	- 1	2027250302	DUST COVER	JT156E HINGE(F) PC+ABS/GY7521	2	
189	1	2084740102	SCREW,BND T+	M4X10(BND T+)	4	
190	- 1	2028550402	ARM	JT156E ARM(B)PC+ABS/GY7521	1 1	
191	- 1	2084740102	SCREW,BND T+	M4X10(BND T+)	2	
192	1	2028251502	STAND	JT156E PC+ABS/GY7521	1	Blk P/N - 202825150
193		2071852400	BRACKET,FIX	JT156E SPEE It FOR STAND	1	
194		2084740102		M4X10(BND T+)	8	
195		2082730122	SCREW,BND+	M3X12(BND+)	4	
196		2027250402	DUST COVER	JT156E HINGE(B) PC+ABS/GY7521	2	
200	1	2039801701	LEG	JD144B SBR φ11.8X5t BLACK	6	
206	}	2074150900	HOLDER	NYLON 66		
- 1	1					

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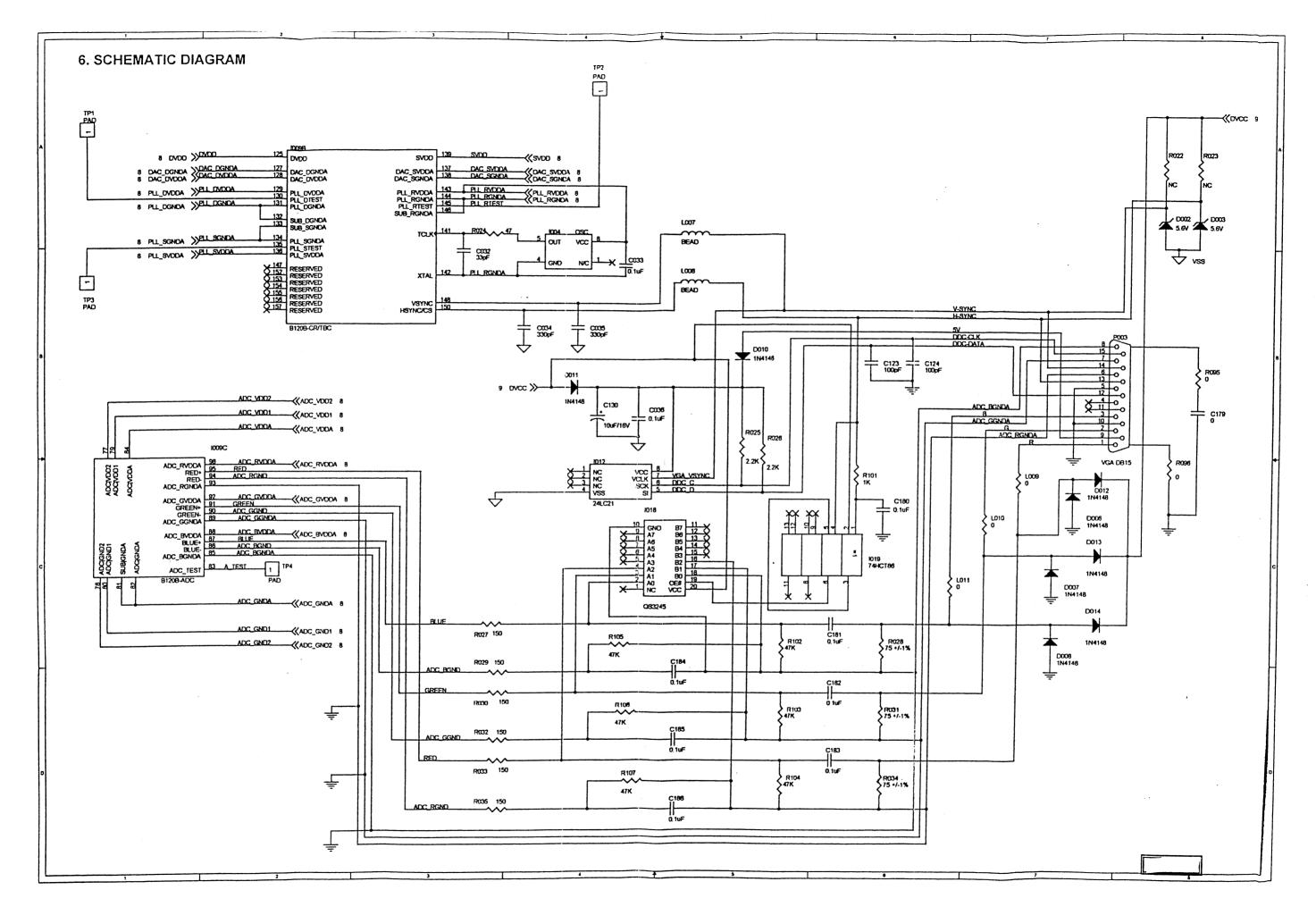
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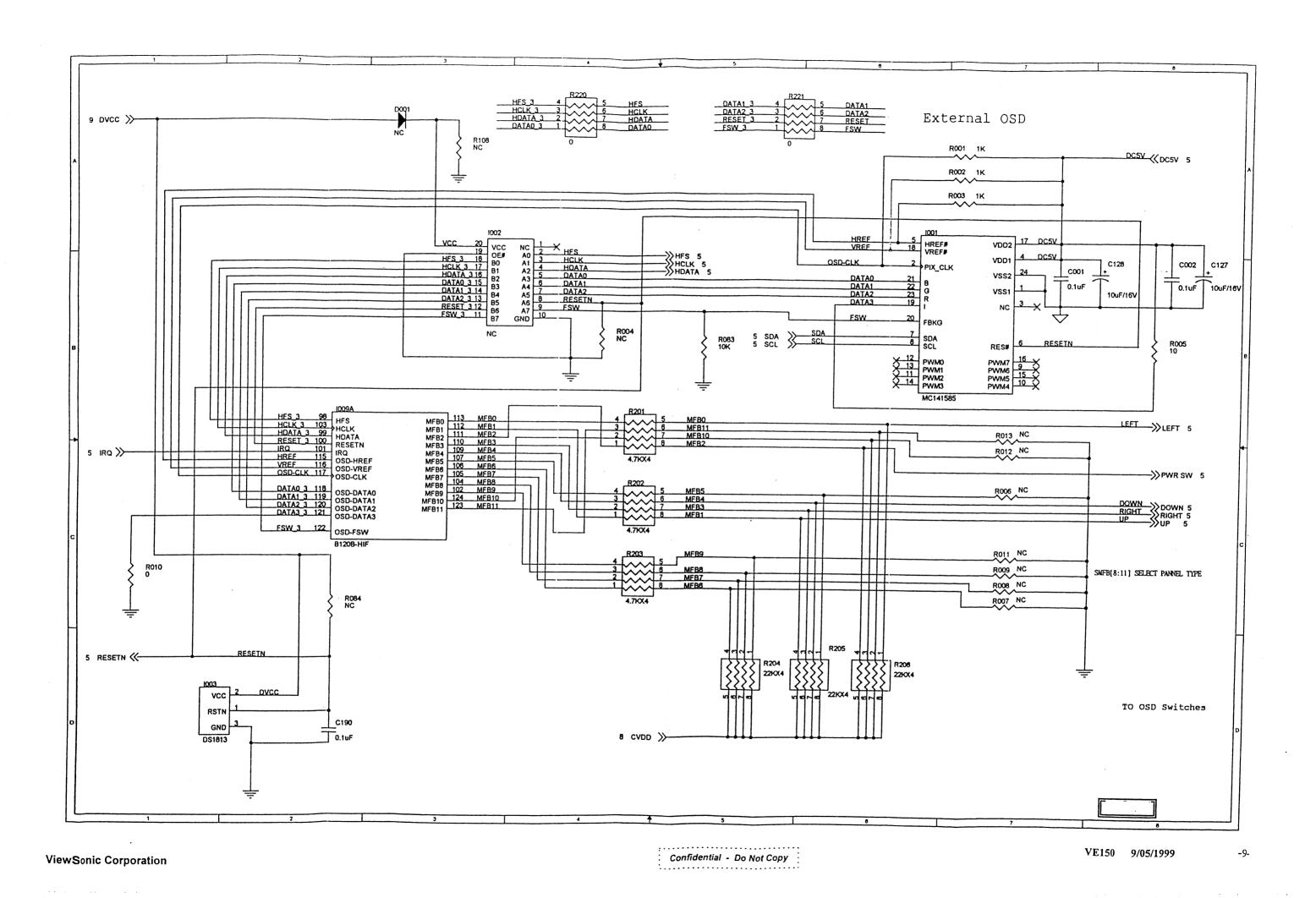
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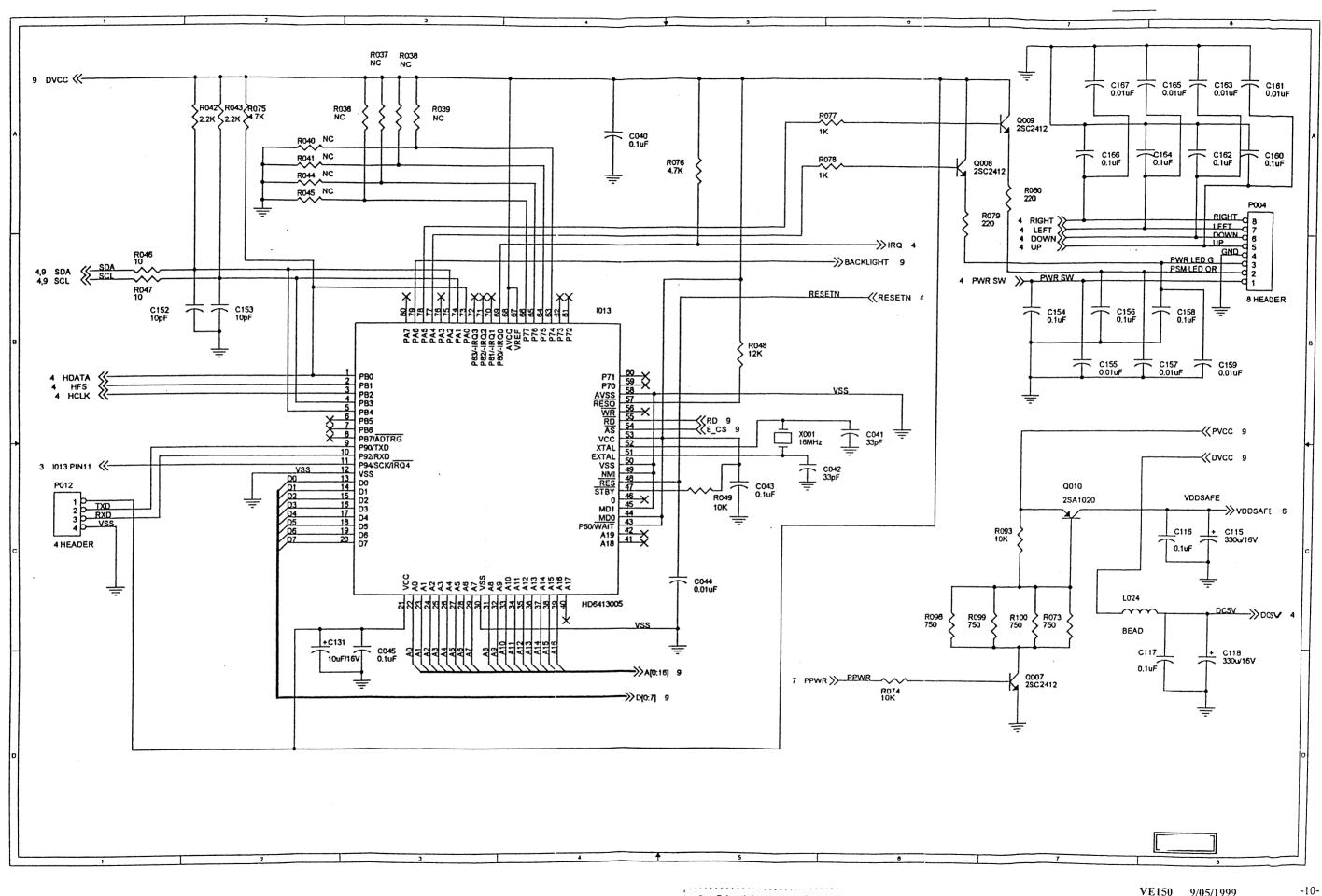
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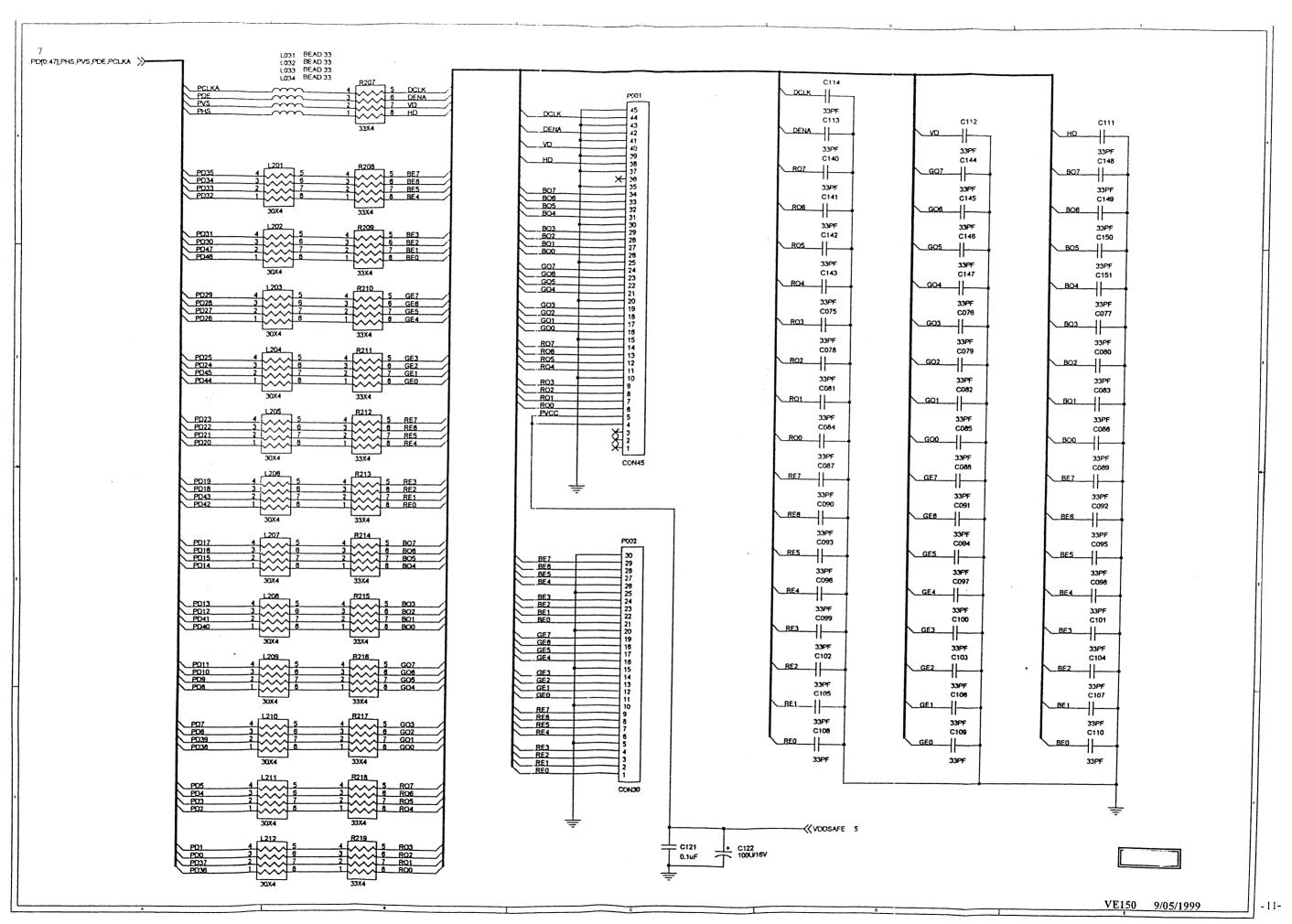


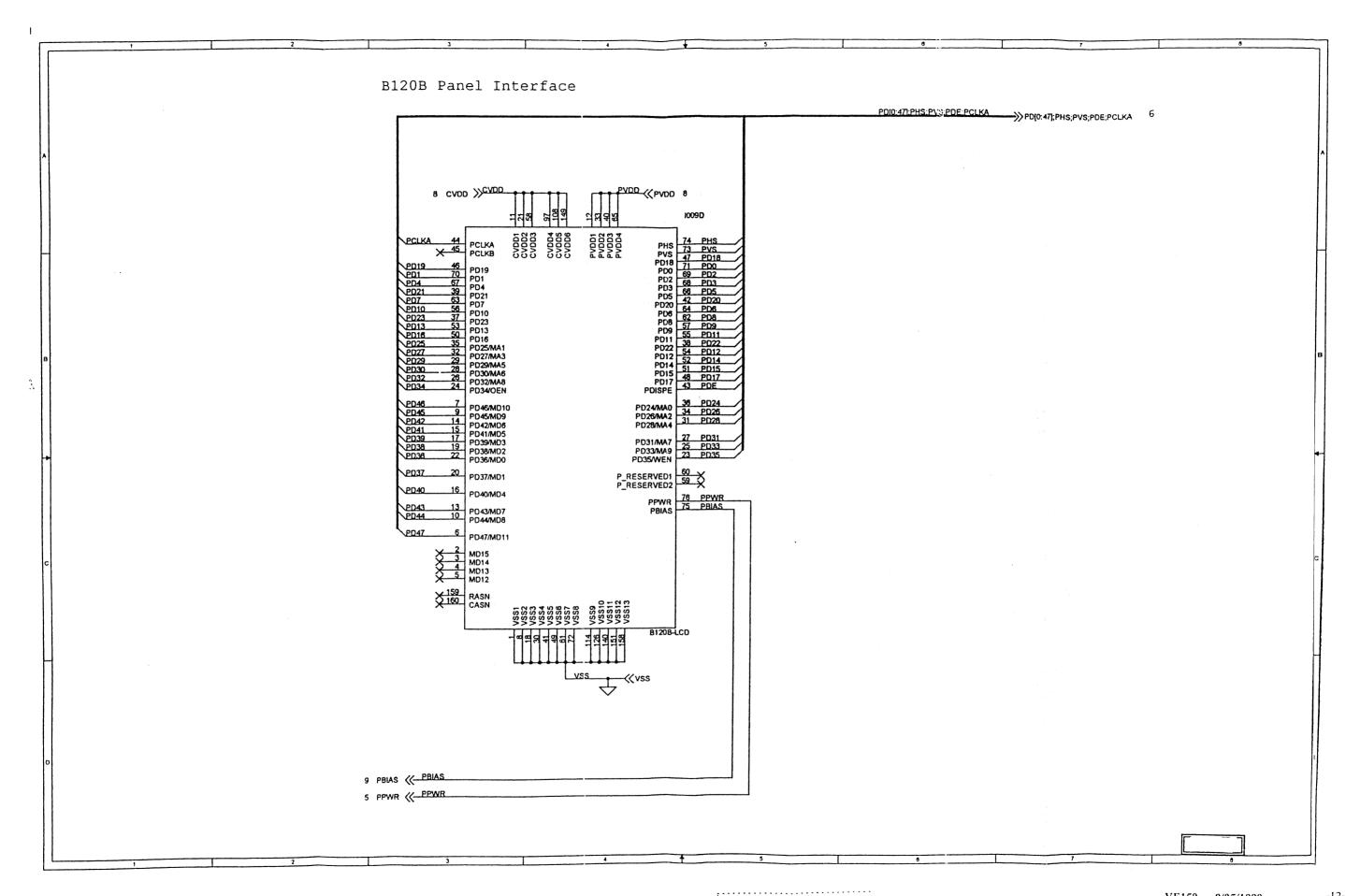
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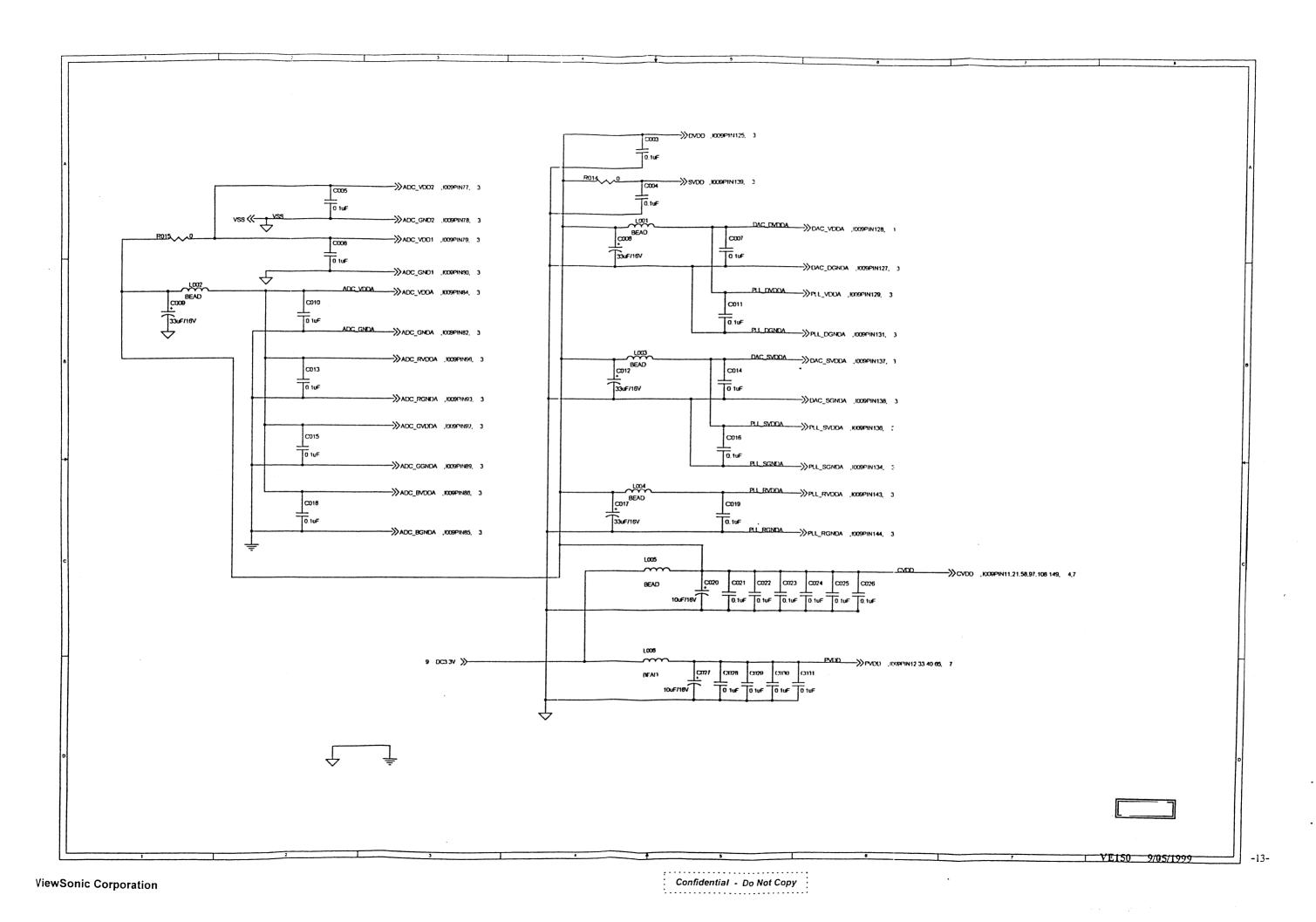


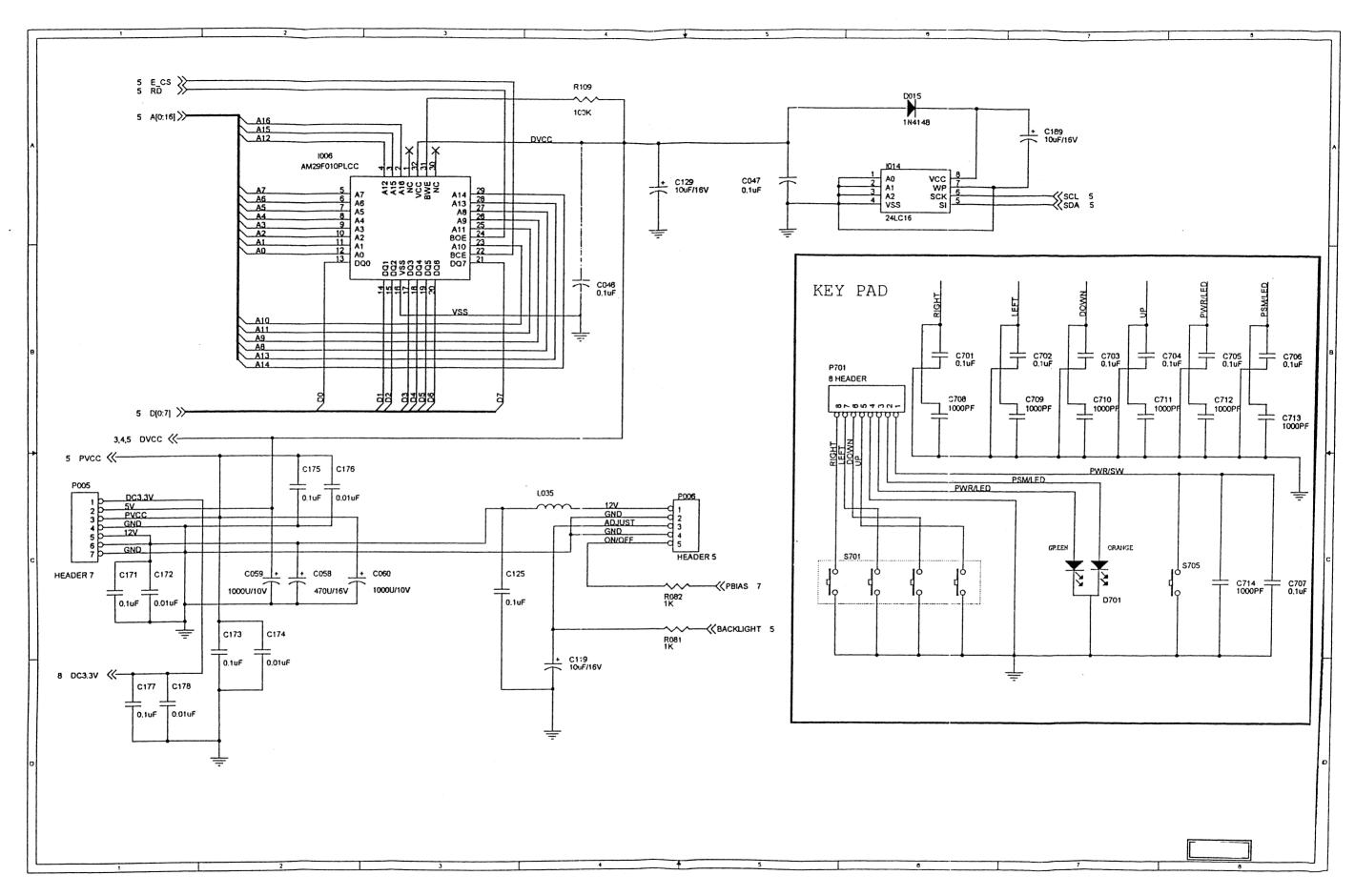


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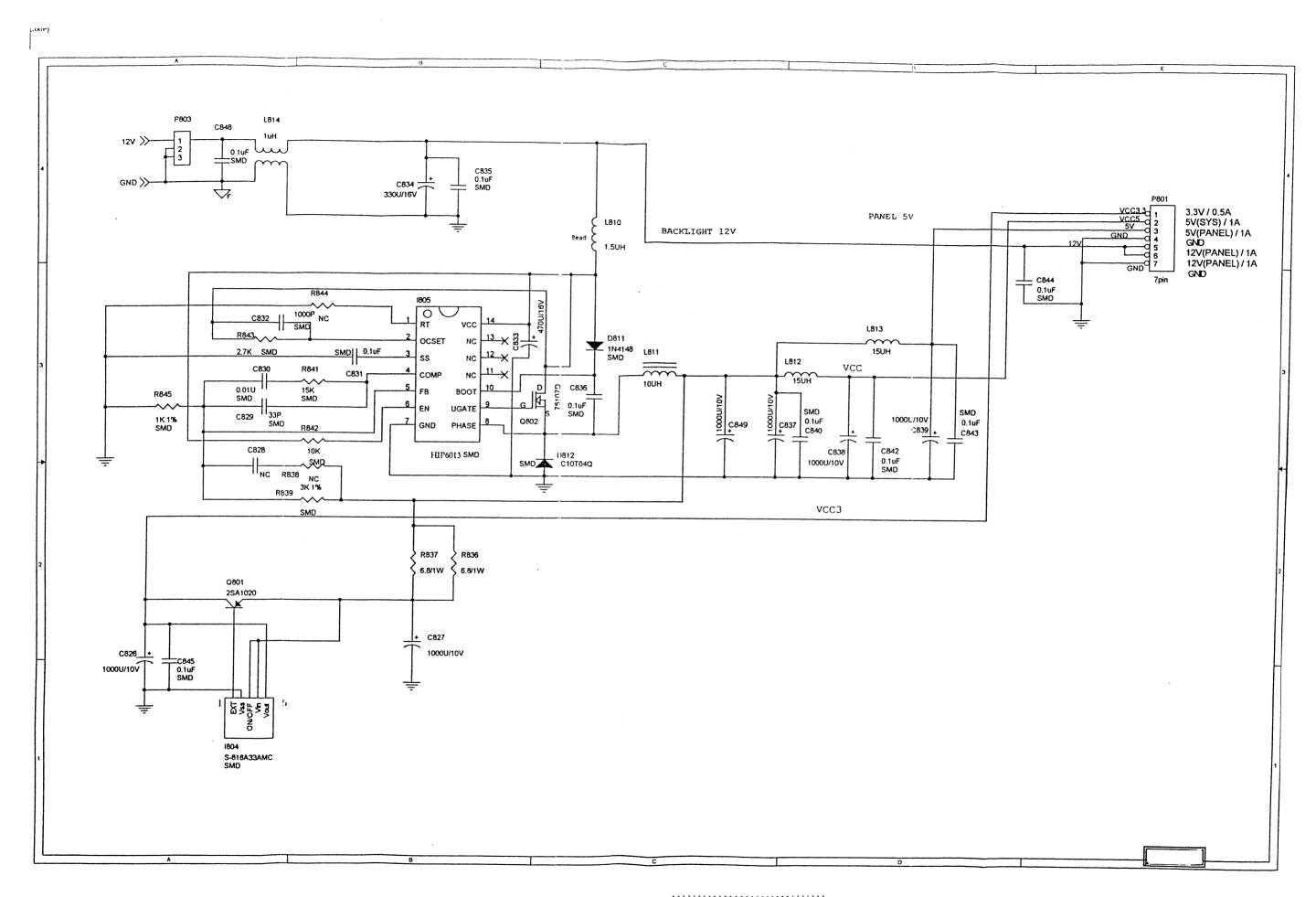




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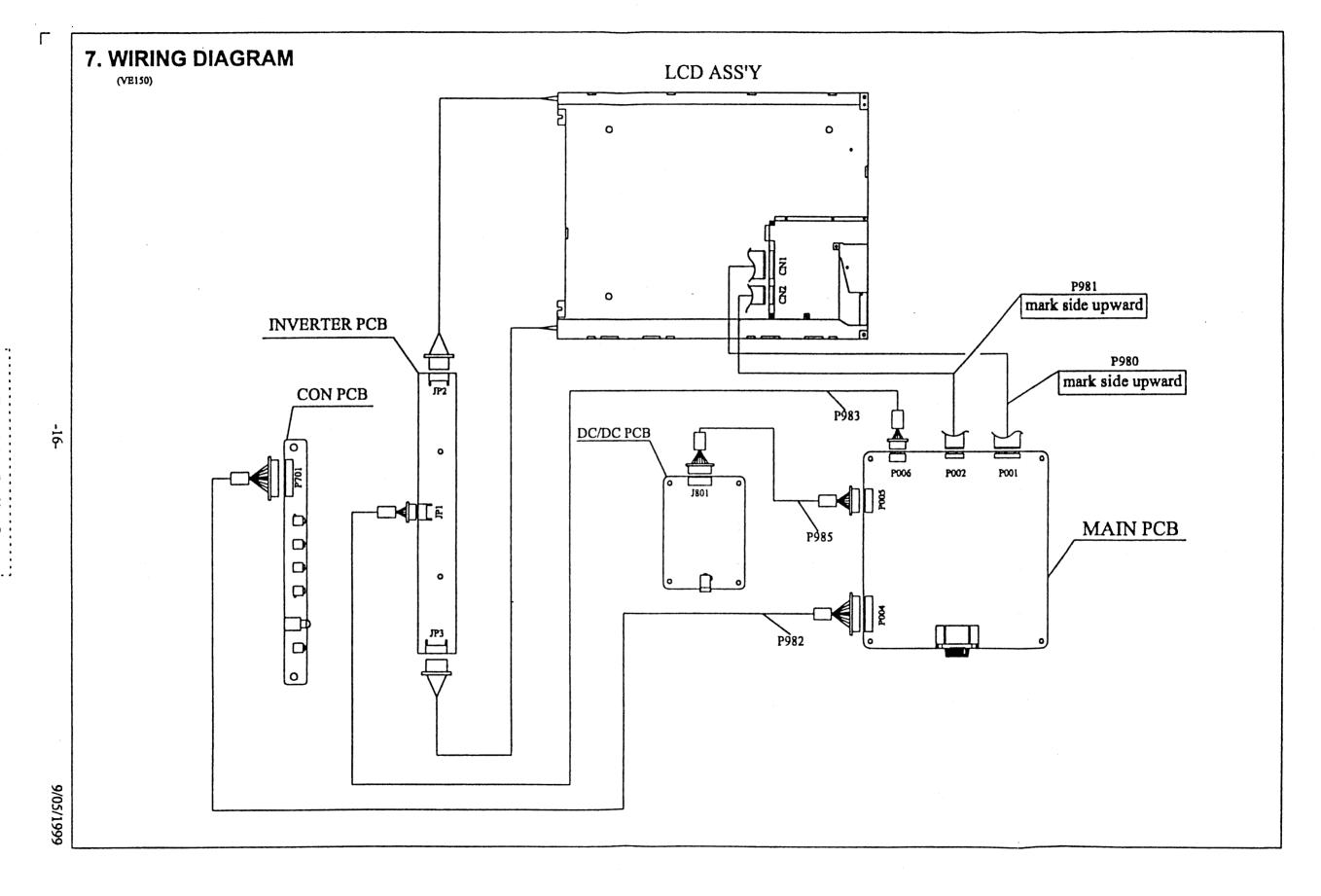
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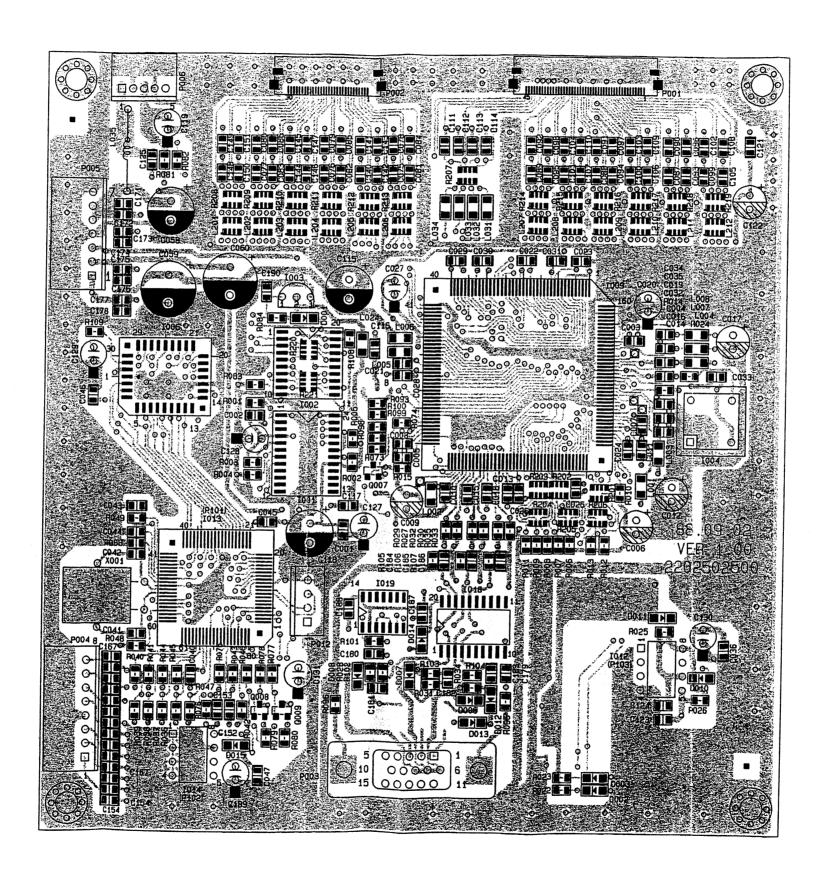
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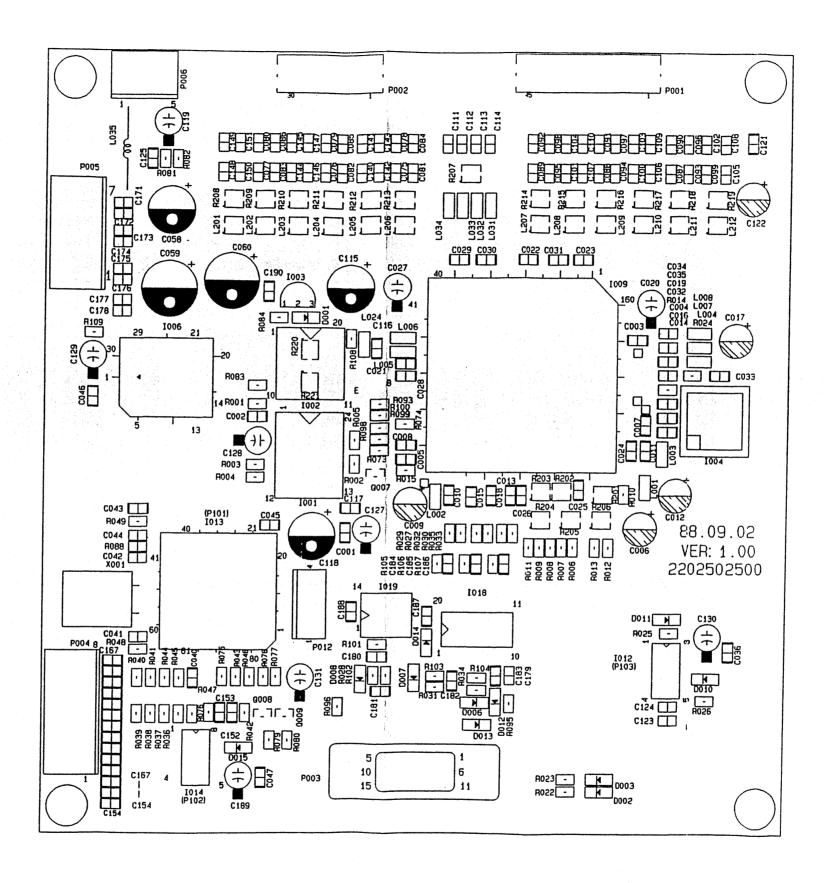
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# 8. PCB LAYOUT

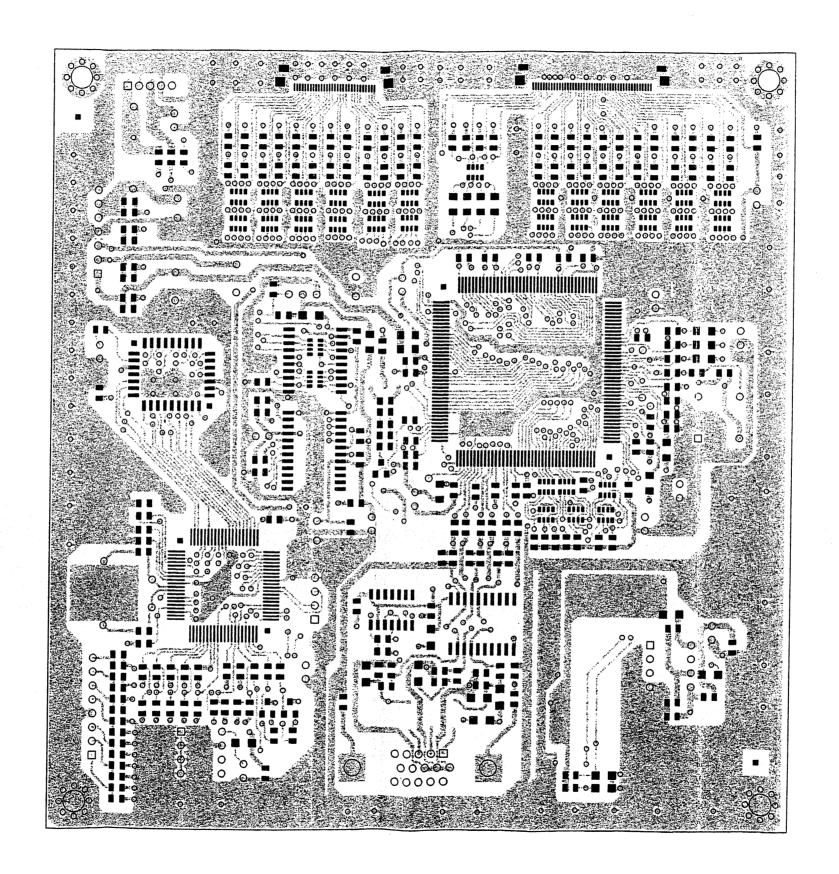
### 8.1. MAIN PCB TOP VIEW

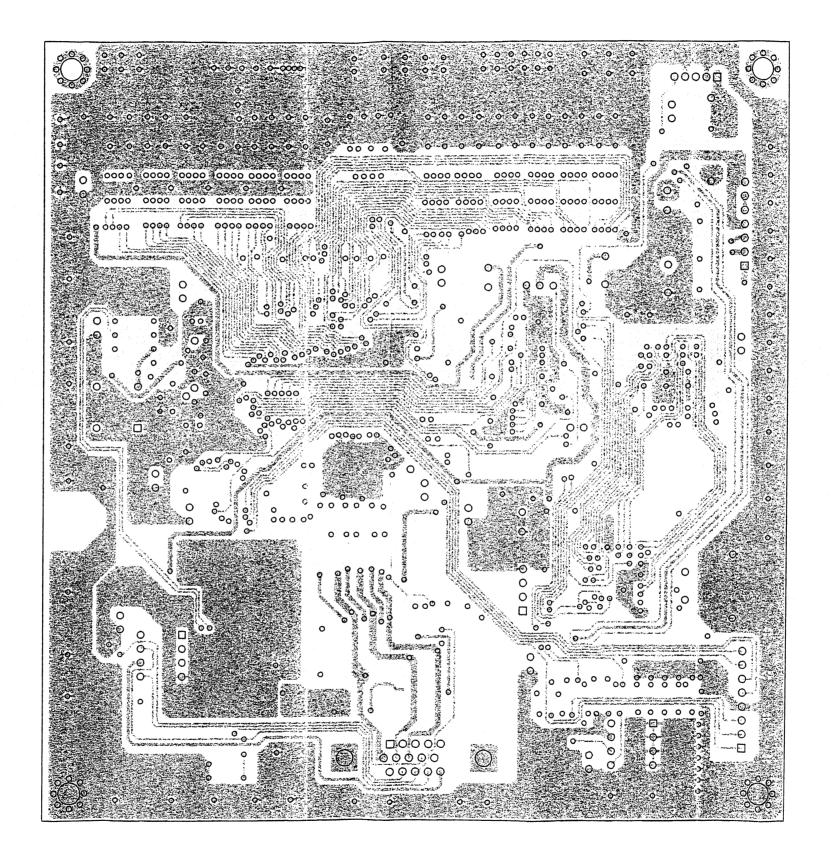




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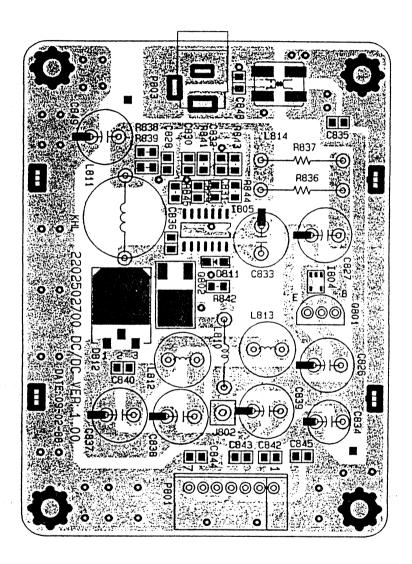
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### 8.4. CON PCB BOTTOM VIEW

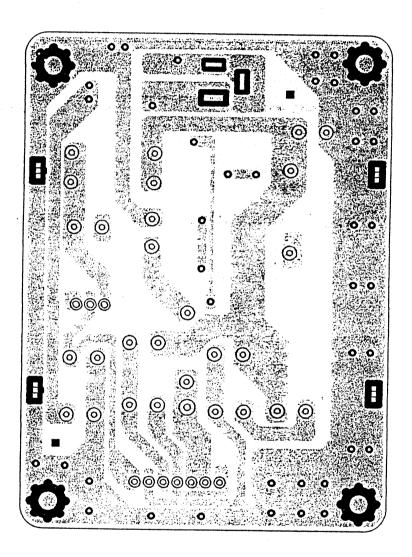


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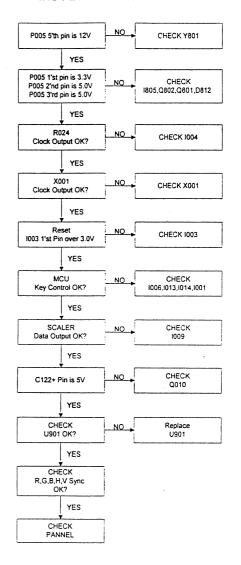
# 8.6. DC/DC PCB BOTTOM VIEW



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#### 9. TROUBLE SHOOTING FLOW CHART



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#### 10. ADJUSTMENT

#### 10.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

- 1. Approximately 30 minutes should be allowed for warm up before proceeding.
- Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
- 3. ESD protection is needed before adjustment.

#### 10.2. MAIN ADJUSTMENTS

NO. FUNCTION DESIGNATION
1. GEOMETRY FUNCTION KEY
2. WHITE BALANCE FUNCTION KEY

#### 10.3. ALIGNMENT PROCEDURES

#### Adjustment Conditions and Precautions:

(A). Power supply voltage: AC 110/120V ± 10% 60 Hz ± 5%, AC 220/240V ± 10% 50 Hz ± 5%.

(B). Warm up time:

The display must be power ON for at least 30 minutes at full white pattern before starting alignments. This is especially critical in color temperature and white balance adjustments.

(C). Signals: reference the front detail specifications and timing table. Video: reference the front detail specifications.

#### I. Geometry:

- (a). Set preset timing same as 3.2 timing chart and cross hatch pattern.
- (b) Power turn off, press "▼" and "②" key and turn on power the same time. After power LED is on, release "▼" and "②" key, Then change mode one by one. One mode stand about 10 sec, When OSD "STORING" disappear then you can change mode. It will auto adjustment.
- (c). Check all mode have auto adjustment and save.

#### 2. Adjustment of White Balance:

#### Presetting:

- (a). Warm up time must be over 30 minutes.
- (b). Set 48KHZ 1024x768 at 16 grays pattern.
- (c). Set up CA110 color analizer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- (d). Power turn off, press "▼" and "[2]" key and turn on power the same time. After power LED is on, release "▼" and "[2]" key, Then press "[1]" key go to factory setting mode.

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OSD type as follows

1:-	2:+ ▲ ▼:	SEL	NOW	DEF
Þ	BACK-LIGH	łT	100	
•	FS-ADC	+-5	68	
	RED FS		145	145
	GREEN FS	_	137	137
	BLUE FS		140	140
ZS-	ADC+ -10		120	
zs-	RED		120	
zs-	GREEN		120	
zs-	BLUE			
ΑU	TO BALANCE			
СН	ANGE MENU		•	
FAC	CTORY-ADJ		VER-1.0	)3
		(1)		

1:- 2:+ ▲ ▼: SEL	NOW	DEF
OFFSET-ADC + - 10	-1	
OFFSET-RED	5	
OFFSET-GREEN	3	
OFFSET-BLUE	-1	
R-GAMMA	5	5
G-GAMMA	5	5
B-GAMMA	5	5
EXIT SAVE + EXIT		
INIT EEPROM		
MAIN MENU		
FACTORY-ADJ	VER-1.0	3
(2)		

- (e). Press "▼" or "A" key move cursor to "AUTO BALANCE" then press " [2] " key the monitor will execute auto white balance when the number of "RED FS" ect. is chang the auto white balance is OK.
- (f). Press "▼" or "▲" key move cursor to "CHANGE MENU" then press "② " key the OSD is change to (2) type menu, Press "▼" or "▲" key move curse to "EXIT SAVE +EXIT" and press "② " key, it will save data and exit OSD.
- (g). Change pattern to full white pattern to check color temperature

 $x=0.300 \pm 0.03$  $y=0.320 \pm 0.03$ 

Y> 180 cd/m<sup>2</sup>

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#### 11. ELECTRICAL PARTS LIST

When you place a parts order, be sure to indicate the following data on the order:

- Location No.
- Parts No.
- Description

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFIC	CATION			REMARK
MAIN P.C.BOARD								
C001		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	z	
C002		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	ž	
C003		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	ž	
C004		2347410496	CAP CHIP 85'C	2012Y5V	0.100UF	50V	z	
C005		2347410496	CAP.CHIP 85°C	2012Y5V	0.100UF	50V	ž	
C006		2337333601	CAP,MINI ELE 85°C	CE04W	33.000UF	16V	M	
C007		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
C008		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	z	
C009		2337333601	CAP.MINI ELE 85'C	CE04W	33.000UF	16V	M	
C010		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
C011		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
C012		2337333601	CAP,MINI ELE 85°C	CE04W	33.000UF	16V	M	
C013		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z.	
2014		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	ž	
C015		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	ž	
2016		2347410496	CAP,CHIP 85'C	2012Y5V	0.100UF	50V	ž	
2017		2337333601	CAP,MINI ELE 85'C	CE04W	33.000UF	16V	M	
2018	*	2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
2019		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	ž	
2020		2337310601	CAP,MINI ELE 85°C	CE04W	10.000UF	16V	M	
2021		2347410496	CAP, CHIP 85°C	2012Y5V	0.100UF	50V	Z	
2022		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
023		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
2024		2347410496	CAP,CHIP 85'C	2012Y5V	0.100UF	50V	Z	
2025		2347410496	CAP, CHIP 85'C	2012Y5V	0.100UF	50V	Z	
2026		2347410496	CAP, CHIP 85°C	2012Y5V	0.100UF	50V	Z	
2027		2337310601	CAP,MINI ELE 85°C	CE04W	10.000UF	16V	M	
2028		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
2029		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z.	
2030		2347410496	CAP,CHIP 85'C	2012Y5V	0.100UF	50V	Z	
2031		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
032		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	1	
2033		2347410496	CAP,CHIP 85'C	2012Y5V	0.100UF	50V	Z	
2034		2347133196	CAP,CHIP 125°C	2012X7R	330.000PF	50V	K	
035		2347133196	CAP,CHIP 125°C	2012X7R	330.000PF	50V	K	
2036		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z.	
2040		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50 V	j	
7041		2342133096	CAP,CHIP 125'C	2012COG	33.000PF	50V	J	
042		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	J	
043		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
044		2347410396	CAP,CHIP 85°C	2012Y5V	0.010UF	50V	Z	
2045		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
046		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
047		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
058		2337347701	CAP,MINI ELE 85°C	CE04W	470.000UF	16V	M	
059		2330100101	CAP,MINI ELE	CE 1000₩	10V 10X5PX1	2.5L SR		
060		2330100101	CAP,MINI ELE		10V 10X5PX1	2.5L SR		
075		2342133096	CAP,CHIP 125'C	2012COG	33.000PF	50V	1	
076		2342133096	CAP, CHIP 125'C	2012COG	33.000PF	50V	1	
077		2342133096	CAP,CHIP 125'C	2012COG	33.000PF	50V	J	
078		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J	
079		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	j	
2080		2342133096	CAP,CHIP 125'C	2012COG	33.000PF	50V	J	
081		2342133096	CAP, CHIP 125'C	2012COG	33.000PF	50V	j	

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFIC	ATION			REMARK
082		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	J	
083		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J	
7084		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	1	
2085		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J	
2086		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50 V	J	
2087		2342133096	CAP CHIP 125°C	2012COG	33.000PF	50V	J	
C088		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	1	
C089		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
C090		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	í	
C091		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
092		2342133096	CAP, CHIP 125C	2012COG	33.000PF	50V	j	
C093		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	j	
C094		2342133096	CAP,CHIP 125'C	2012COG	33.000PF	50V	i	
2095		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	j	
2096	•	2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
2097		2342133096	CAP, CHIP 125°C	2012COG		50V	3	
2098					33.000PF		-	
		2342133096	CAP CHIP 125°C	2012COG	33.000PF	50V	1	
2099		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	J	
C100		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	1	
101		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50∿	1	
2102		2342133096	CAP CHIP 125 C	2012COG	33.000PF	50V	1	
C103		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J	
2104		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	ſ	
2105		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	J	
2106		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J	
C107		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J .	
8010		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50 V	J	
2109		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	3	
2110		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	1	
2111		2342133096	CAP, CHIP 125°C	2012CQG	33.000PF	50V	1	
C112		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	j	
2113		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	ĵ	
2114		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
2115		2337333701	CAP,MINI ELE 85'C	CE04W	330.000UF		М	
2116		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	z	
2117		2347410496	CAP.CHIP 85°C	201215V 2012Y5V	0.100UF	50V	. Z	
2118		2337333701	CAP,MINI ELE 85'C	CE04W	330.000UF		M	
C119		2337310601	CAP,MINI ELE 85°C					
2121		2347410496	CAP.CHIP 85°C	CE04W 2012Y5V	10.000UF 0.100UF	16V 50V	M Z	
2122		2337310701	CAP, MINI ELE 85°C	CE04W	100000F		Z M	
2123		2342110196					***	
2124			CAP,CHIP 125°C	2012COG	100.000PF	50V	J	
		2342110196	CAP,CHIP 125°C	2012COG	100:000PF	50V	1	
2125		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z	
2127		2337310601	CAP,MINI ELE 85°C	CE04W	10.000UF	16V	M	
128		2337310601	CAP,MINI ELE 85'C	CE04W	10.000UF	16V	M	
129		2337310601	CAP,MINI ELE 85'C	CE04W	10.000UF	16V	M	
2130		2337310601	CAP,MINI ELE 85°C	CE04W	10.000UF	16V	М	
2131		2337310601	CAP,MINI ELE 85'C	CE04W	10.000UF	16V	M	
140		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	3	
2141		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	j	
142		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	j	
143		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
144		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
145		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	í	
1146		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
147		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	j	
148		2342133096			33.000PF	50V	1	
			CAP,CHIP 125°C	2012COG			-	
2149		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	ì	
2150		2342133096	CAP,CHIP 125°C	2012COG	33.000PF	50V	1	
2151		2342133096	CAP, CHIP 125°C	2012COG	33.000PF	50V	J	
		2342110096	CAP,CHIP 125°C	2012COG	10.000PF	50V	3	
2152		2342110096	CAP CHIP 125°C	2012COG	10.000PF	50 V	J	
2153								
		2347410496	CAP,CHIP 85°C	2012Y5V	0.100UF	50V	Z Z	

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
C156		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C157		2347410396	CAP, CHIP 85'C	2012Y5V 0.010UF	50V Z
C158		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C159 C160		2347410396	CAP,CHIP 85'C	2012Y5V 0.010UF	50V Z
C161		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C162		2347410396 2347410496	CAP,CHIP 85'C	2012Y5V 0.010UF	50V Z
C163		2347410496	CAP, CHIP 85°C	2012Y5V 0.100UF	50V Z
C164		2347410396	CAP, CHIP 85°C CAP, CHIP 85°C	2012Y5V 0.010UF 2012Y5V 0.100UF	50V Z 50V Z
C165		2347410396	CAP, CHIP 85°C	2012Y5V 0.100UF 2012Y5V 0.010UF	50V Z 50V Z
C166		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C167		2347410396	CAP,CHIP 85'C	2012Y5V 0.010UF	50V Z
C171		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C172		2347410396	CAP, CHIP 85°C	2012Y5V 0.010UF	50V Z
C173		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C174		2347410396	CAP, CHIP 85'C	2012Y5V 0.010UF	50V Z
C175		2347410496	CAP, CHIP 85'C	2012Y5V 0.100UF	50V Z
C176		2347410396	CAP, CHIP 85'C	2012Y5V 0.010UF	50V Z
C177		2347410496	CAP, CHIP 85°C	2012Y5V 0.100UF	50V Z
C178		2347410396	CAP, CHIP 85'C	2012Y5V 0.010UF	50V Z
C179		2253300096	RES.CHIP 1/8	RC I/8W 0.00	J T2012
C180		2347410496	CAP, CHIP 85'C	2012Y5V 0.100UF	50V Z
C181		2347410496	CAP, CHIP 85°C	2012Y5V 0.100UF	50V Z
C182		2347410496	CAP, CHIP 85'C	2012Y5V 0.100UF	50V Z
C183		2347410496	CAP.CHIP 85'C	2012Y5V 0.100UF	50V Z
C184		2347410496	CAP, CHIP 85°C	2012Y5V 0.100UF	SOV Z
C185		2347410496	CAP,CHIP 85°C	2012Y5V 0.100UF	50V Z
C186		2347410496	CAP.CHIP 85°C	2012Y5V 0.100UF	50V Z
C187		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF	50V Z
C188 C189		2347410496	CAPACHIP 85°C	2012Y5V 0.100UF	50V Z
C190		2337310601 2347410496	CAP.MINI ELE 85°C CAP.CHIP 85°C	CE04W 10.000UF 2012Y5V 0.100UF	16V M 50V Z
D002		2364500396	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V 0.5	
D003		2364500396	DIODEZENER SMD	RLZ5.6B 5.45-5.73V 0.5	
D006		2364600196	DIODE.SWITCH SMD	LL4148 3.5X1.5 φ TEM	
D007		2364600196	DIODE.SWITCH SMD	LL4148 3.5X1.5 \( \psi \) TEM	
D008		2364600196	DIODE.SWITCH SMD	LL4148 3.5X1.5 φ TEM	
D010		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEM	
D011		2364600196	DIODE.SWITCH SMD	LL4148 3.5X1.5 φ TEM	
D012		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEM	
D013		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEM	
D014		2364600196			
D015			DIODE SWITCH SMD	LL4148 3.5X1.5 φ TEM	
1001			DIODE,SWITCH SMD	LL4148 3.5X1.5 φ TEM	
1003			IC,DIGITAL SMD IC,LINEAR	MC141585DW DS1813-10	MOTOROLA S016
1004			XTALOSC	XTAL 50.000MHZ H/S	DALLAS
1006			IC,DIGITAL SMD	W29EE011P-15	WINBOND SOP32
1009			IC,DIGITAL SMD	BRIDGE-120	PARADISE POFP160
1012			IC,DIGITAL	24LC21A/P	MICROCHIP
1013			IC,DIGITAL SMD	HD6413005F16	HITACHI OFP-80A
1014			IC.LINEAR	24LC16B	MICROCHI
1018		2365905296	IC.DIGITAL SMD	OS3245S0	PROSPECT S020
1019	RA	2365900596	IC, DIGITAL SMD	74HCT86DT	PHILIPS S014
1019	RB		IC,DIGITAL SMD	CD74HCT86	HARRIS S014
L001			BEAD,HI-IMPEDANCE		1<300MA
L002			BEAD, HI-IMPEDANCE		I<300MA
L003		2379620196	BEAD, HI-IMPEDANCE	3216MZ 200.00OHM	I<300MA
L004		2379620196	BEAD, HI-IMPEDANCE		I<300MA
L005			BEAD, HI-IMPEDANCE		I<300MA
L006			BEAD,HI-IMPEDANCE		1<300MA
L007			BEAD,HI-IMPEDANCE		I<300MA
L008			BEAD,HI-IMPEDANCE		I<300MA
L009			RES,CBN 1/4 S	RD 1/4WS 0.00 J	
L010		2233400095	RES,CBN 1/4 S	RD 1/4WS 0.00 J	

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	1	REMARK
L011		2233400095	RES,CBN 1/4 S	RD 1/4WS 0.00 J		
L024		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OHM	I<300MA	
L031		2379626096	BEAD,HI-IMPEDANCE	3216MZ 26.00OHM	I<300MA	
L032		2379626096	BEAD,HI-IMPEDANCE	3216MZ 26.00OHM	I<300MA	
L033		2379626096	BEAD,HI-IMPEDANCE	3216MZ 26.00OHM	I<300MA	
L034		2379626096	BEAD HI-IMPEDANCE		I<300MA	
L035		2379101495	FERRITE CORE	3.5X9X0.8		
L201		2376630008	BEAT ARRAY MULTI		I<200mA	
L202		2376630008	BEAT ARRAY MULTI			
L203		2376630008	BEAT ARRAY MULTI			
L204		2376630008	BEAT ARRAY MULTI			
L205		2376630008	BEAT ARRAY MULTI			
L206		2376630008	BEAT ARRAY MULTI			
L207		2376630008	BEAT ARRAY MULTI			
L208		2376630008	BEAT ARRAY MULTI			
L208 L209			BEAT ARRAY MULTI			
		2376630008				
L210		2376630008	BEAT ARRAY MULTI			
L211		2376630008	BEAT ARRAY MULTI			
L212	D.4	2376630008	BEAT ARRAY MULTI			
100q	R.A	2407630145	SOCKET,SMD	IL-FHR.S-HF*45 0.5*45F		
P001	RB	2407630245	SOCKET,SMD	6240-45-ORSP 0.5*45P K		
P002	RA	2407630130	SOCKET,SMD	IL-FHR,S-HF*30 0.5*30F		
P002	RB	2407630230	SOCKET,SMD	6240-30-OR5P 0.5*30P K	YOCERA	
P003	R.A.	2404381001	CONNECTOR	D-SUB 15P		
P003	RB	2407430300	SOCKET	D-SUB FEMALE 15PIN	RIGHT(AMP)	
P004		2404301007	CONNECTOR	S8B-XH-A 8PIN JST		
P005		2404301006	CONNECTOR	S7B-XH-A 7PIN		
P006		2404301104	CONNECTOR	S5B-PH-K 5PIN JST		
P101		2407390132	SOCKET,IC	1.27mmX32PIN SMD PL	CC	
P102		2407310108	SOCKET,IC	2.54mmX7.62 08PIN DI	IP D/L	
P103		2407310108	SOCKET.IC	2.54mmX7.62 08PIN DI	IP D/L	
Q007		2360300196	XISTOR NPN R SMD	2SC2412KR	ROHM SMT3	
Q008		2360300196	XISTOR, NPN R SMD		ROHM SMT3	
O009		2360300196	XISTOR NPN R SMD		ROHM SMT3	
Q010		2361111191	XISTOR PNP R		TOSHIBA	
R001		2253310296	RES,CHIP 1/8		J T2012	
R002		2253310296	RES,CHIP I/8		J T2012	
R003		2253310296	RES,CHIP 1/8		J T2012	
R005		2253310096	RES.CHIP 1/8		J T2012	
R010		2253300096	RES,CHIP 1/8		J T2012	
R014		2253300096	RES,CHIP 1/8	RC 1/8W 0.00		
		2253300096	RES,CHIP 1/8		J T2012	
R015		2253347096			J T2012	
R024			RES,CHIP 1/8 RES,CHIP 1/8		J T2012	
R025		2253322296			J T2012	
R026		2253322296	RES,CHIP 1/8	110 11011	J T2012	
R027		2253315196	RES,CHIP 1/8			
R028		2251307506	RES,CHIP I/8		F	
R029		2253315196	RES,CHIP 1/8		J T2012	
R030		2253315196	RES,CHIP 1/8		J T2012	
R031		2251307506	RES,CHIP 1/8		F	
R032		2253315196	RES,CHIP 1/8	****	J T2012	
R033		2253315196	RES,CHIP 1/8	-	J T2012	
R034		2251307506	RES, CHIP 1/8		F	
R035		2253315196	RES,CHIP 1/8	100.00	J T2012	
R042		2253333296	RES,CHIP 1/8		J T2012	
R043		2253333296	RES, CHIP 1/8	RC 1/8W 3.30K	J T2012	
R046		2253310096	RES,CHIP 1/8		J T2012	
R047		2253310096	RES,CHIP I/8		J T2012	
R048		2253312396	RES,CHIP 1/8		J T2012	
R049		2253312396	RES,CHIP 1/8		J T2012	
R073		2253375196	RES,CHIP 1/8	RC 1/8W 750.00	J T2012	
R074		2253310396	RES,CHIP 1/8		J T2012	
				RC 1/8W 4.70K	J T2012	
R075		2253347296	RES,CHIP 1/8	RC 1/8W 4.70K	J T2012	
R076		2253347296	RES,CHIP 1/8	NC 1/0W 4./UN	. 12012	

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LOC NO. SOURCE	PART NO.	DESCRIPTION	SPECIFIC	ATION	REMARK
R077	2253310296	RES,CHIP 1/8	RC 1/8W	1.00K J	T2012
R078	2253310296	RES,CHIP 1/8	RC 1/8W	1.00K J	T2012
R079	2253322196	RES,CHIP 1/8	RC 1/8W	220.00 J	T2012
R080	2253322196	RES,CHIP 1/8	RC 1/8W	220.00 J	T2012
R081	2253310296	RES,CHIP 1/8	RC 1/8W	1.00K J	T2012
R082	2253310296	RES,CHIP 1/8	RC 1/8W	1.00K J	T2012
R083	2253310396	RES,CHIP 1/8	RC I/8W	10.00K J	T2012
R093	2253310396	RES,CHIP 1/8	RC 1/8W	10.00K J	T2012
R095	2253300096	RES,CHIP 1/8	RC 1/8W	0.00	T2012
R096	2253300096	RES,CHIP 1/8	RC 1/8W	0.00	T2012
R098	2253375196	RES,CHIP 1/8	RC 1/8W	750.00 J	T2012
R099	2253375196	RES,CHIP 1/8	RC 1/8W	750.00 J	T2012
R100	2253375196	RES,CHIP 1/8	RC 1/8W	750.00 J	T2012
R101	2253310296	RES,CHIP 1/8	RC 1/8W	1.00K J	T2012
R102	2253347396	RES,CHIP 1/8	RC 1/8W	47.00K J	T2012
R103	2253347396	RES,CHIP 1/8	RC 1/8W	47.00K J	T2012
R104	2253347396	RES,CHIP 1/8	RC 1/8W	47.00K J	T2012
R105	2253347396	RES,CHIP 1/8	RC 1/8W	47.00K J	T2012
R106	2253347396	RES,CHIP 1/8	RC 1/8W	47.00K J	T2012
R107	2253347396	RES,CHIP 1/8	RC 1/8W	47.00K J	T2012
R109	2253310496	RES,CHIP 1/8	RC 1/8W	100.00K J	T2012
R201 R202	2259247208	RES,CHIP NETWORKS		1/16W 4.70K	J P=0.8
R202 R203	2259247208	RES,CHIP NETWORKS		1/16W 4.70K	J P=0.8
R204	2259247208 2259222308	RES,CHIP NETWORKS		1/16W 4.70K	J P=0.8
R205	2259222308	RES, CHIP NETWORKS		1/16W 22.00K	J P=0.8
R206	2259222308	RES,CHIP NETWORKS RES,CHIP NETWORKS		1/16W 22.00K 1/16W 22.00K	J P=0.8 J P=0.8
R207		RES, CHIP NETWORKS		1/16W 22.00K	J P=0.8
R208		RES, CHIP NETWORKS		1/16W 33.00	J P=0.8
R209	2259233008	RES,CHIP NETWORKS		1/16W 33.00	J P=0.8
R210	2259233008	RES, CHIP NETWORKS		1/16W 33.00	J P=0.8
R211	2259233008	RES.CHIP NETWORKS		1/16W 33.00	J P=0.8
R212	2259233008	RES, CHIP NETWORKS		1/16W 33.00	J P=0.8
R213	2259233008	RES, CHIP NETWORKS		1/16W 33.00	J P=0.8
R214	2259233008	RES, CHIP NETWORKS		1/16W 33.00	J P=0.8
R215	2259233008	RES, CHIP NETWORKS		I/16W 33.00	J P=0.8
R216	2259233008	RES, CHIP NETWORKS	08P*04R	1/16W 33.00	J P=0.8
R217	2259233008	RES.CHIP NETWORKS	08P*04R	I/16W 33.00	J P=0.8
R218	2259233008	RES, CHIP NETWORKS	08P*04R	1/16W 33.00	J P=0.8
R219	2259233008	RES, CHIP NETWORKS	08P*04R	1/16W 33.00	J P=0.8
R220	2259200008	RES.CHIP NETWORKS	08P*04R	1/16W 0000 .00	J P=0.8
R221	2259200008	RES,CHIP NETWORKS	08P*04R	1/16W 0000 .00	J P=0.8
U001	2202502500	PCB MULTILAYER	JT156E11 N	LAIN FR4°4 137°142	
X001	2369102800	XTAL,OSC	XTAL 16.00	00MHZ 30PPM 49/U	
CON P.C.BOARD					
C701	2346410496	CAP,CHIP 85°C	1608Y5V	0.100UF 50V	Z
C702	2346410496	CAP.CHIP 85'C	1608Y5V	0.100UF 50V	ž
C703	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	ž
C704	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	ž
C705	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Ž
C706	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Ž
C707	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Z
C708	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	K
C709	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	К
C710	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	К
C711	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	К
C712	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	K
C713	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	K
C714	2346110296	CAP, CHIP 125'C	1608X7R	1000.000PF 50V	K
D701	2363703400	LED	KINGBRIG	HT L-59YGW	
P701	2404300007	CONNECTOR	B8B-XH-A		
S701	2403700800	SWITCH.PU-TC	SKHH43A5		

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# VE150 Service Manual

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
S705 U701		2403700600 2202110600	SWITCH,PU-TC PC BOARD	SKHHLH1520-SV JT156E1T* CON 94V0 155X1	
5701		2202110600	PC BUARD	11130E11 - CON 94 VO 133X1	•
DC/DC F	P.C.BOAF	₹D			
C826		2335210812	CAP,MINI ELE 105'C	CE04W 1000.000UF 10V	М
C827		2335210812	CAP,MINI ELE 105'C	CE04W 1000.000UF 10V	M
C829		2342133096	CAP,CHIP 125°C	2012COG 33.000PF 50V	J
C830		2347410396	CAP,CHIP 85'C	2012Y5V 0.010UF 50V	Z
C831		2347410496	CAP.CHIP 85'C	2012Y5V 0.100UF 50V	ž
C832		2347410296	CAP,CHIP 85'C	2012Y5V 1000.000PF 50V	ž
C833		2333347701	CAP,MINI ELE 105'C	CE04W 470.000UF 16V	M
C834		2333333701	CAP,MINI ELE 105'C	CE04W 330.000UF 16V	M
C835		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF 50V	Z
C836		2347410496		2012Y5V 0.100UF 50V	Z
C837		2335210812	CAP,CHIP 85'C CAP.MINI ELE 105'C	CE04W 1000.000UF10V	M
C838		2335210812	CAP,MINI ELE 105'C	CE04W 1000.000UF 10V	M
C839		2335210812	CAP,MINI ELE 105°C	CE04W 1000.000UF 10V	M
C840		2347410496	CAP,CHIP 85°C	2012Y5V 0.100UF 50V	Z
C842		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF 50V	Z
C843		2347410496	CAP,CHIP 85°C	2012YSV 0.100UF 50V	Z
C844		2347410496	CAP,CHIP 85'C	2012Y5V 0.100UF 50V	Z
C845		2347410496	CAP,CHIP 85°C	2012Y5V 0.100UF 50V	Z
C848		2347410496	CAP,CHIP 85°C	2012Y5V 0.100UF 50V	2
C849		2335210812	CAP,MINI ELE 105°C	CE04W 1000.000UF 10V	M
D811		2364600196	DIODE, SWITCH SMD	LL4148 3.5X1.5 φ TEMIC G	508
D812		2364200796	DIODE, RECT(SMD)	C10T04Q IR	
1804		2365905096	IC,DIGITAL SMD	S816A33AMC SEIN	
1805		2365800196	IC,LINEAR(SMD)		RIS SO-14
L810		2379101495	FERRITE CORE	3.5X9X0.8	
L811		2371110800	COIL,CHOKE	JT156E1 0.8*15.5T 10uH	
L812		2371131000	COIL.CHOKE	JD156G 15UF 21.5T REF	
L813		2371131000	COIL,CHOKE	JD156G 15UF 21.5T REF	
L814		2370100196	COIL CHOKE SMD	9.0°8.0°5.2 500/100M 5.0A	
P801		2404301006	CONNECTOR	S7B-XH-A 7PIN	<b></b>
P803		2409200100	JACK,DC POWER	DJ-0702-025 2.5 φ JYE	
Q801		2361111191	XISTOR.PNP R		HIBA
Q802		2360606296	FET.N-CH(SMD)		RIS T0252AA
R\$36		2235468903	RES.MTL I	RS IW 6.80 J	
R837		2235468903	RES.MTL I	RS (W 6.80 , J	
R839		2251330016	RES,CHIP 1/8	RC 1/8 3.00K F	T2012
R841		2253315396	RES,CHIP 1/8	RC 1/8W 15.00K J	T2012
R842		2253310396	RES,CHIP 1/8	RC 1/8W 10.00K J	T2012
R843		2253327296	RES,CHIP 1/8	RC 1/8W 2.70K J	T2012
R845		2251310016	RES,CHIP 1/8	RC 1/8 1.00K F	
U802		2202502700	PCB MULTILAYER	JT156E1 DC/DC FR4*2 90*66	•
OTHERS	S				
Y801		2414101700	AC ADAPTER	AC110/220V DC12V 50W SY	N
P951		2427130014	POWER CORD	H05VV-F3*0.75 VDE WALL	1.83M
P952		2427130003	POWER CORD	SVT 18/3C IVORY 1.83M	
P961		2427501085	I/O CABLE	D-15M*2 VIEWSONIC 1.83M	LCD
P980		2420325001	FCC CABLE	250L*23W*0.05T 0.3W*0.5P*	45N
P981		2420325002	FCC CABLE	250L*15.5W*0.05T 0.3W*0.5	
P982		2427412514	WIRE HARNESS	JST XHP8P*2 2464#24*8C 35	
P983		2427412515	WIRE HARNESS	JST PHR5P*2 2464#24*6C 30	
P984		2427307013	LUG W/WIRE	3.2 @ RING*2 1007#18 BK 75	
P985		2427412513	WIRE HARNESS	IST XHP-7P 2464 7C 160L	- ,
	В.	2200500900	PC BOARD ASY SMD	INVERTER CDA-039F CHI	SAM
U901 U901	RA RB	2200501000	PC BOARD ASY SMD	INVERTER L0020 SAM	

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# Service Bulletin

SB # VE150B\_SB\_002

To: Authorized Service Providers	Issue Date: June 8, 2000	ECO #: 326 (new) -2
Model # : VE150B	Cut-in S/N, S/N Range, or Date: Final phase out of Sampo inverter board used in production GU01600001.	
Subject: Backlight Inverter Board (S	Sampo) Reliability Issue.	

#### Purpose:

To resolve problem with field failures of the backlight inverter board due to component quality of the transformers (PT1 and PT2) utilized in the Sampo inverter design.

Service Disposition:	
□ Recall.	
☐ Unit under service and service inventory.	
☐ Unit under service only.	
☑ Technician judgement for unit under service (symptomatic).	

#### Change(s)/Countermeasure(s):

The Sampo inverter may still be used but only if "YST" marking is indicated on the transformer housing under the safety label. The preferred inverter board will be Chi-Sam brand.

Part Location	Part Description	Part Number	Repair Action	Comment	Failure Code
PT1, PT2	Sampo backlight inverter board.	B-SB-0221-0236	Replace defective inverter board with new one.	Limited supply remaining. Use Sampo boards containing "YST" marked transformers only.	VZK
PT1, PT2	Chi-Sam backlight inverter board.	B-SB-0221-0203	Replace defective inverter board with new one.	Preferred board to use.	VZK

See photos on next page to see the differences between the two inverter boards used for this model.

# Please contact the Quality Assurance Department at (909) 444-8727 for further information.

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# **Service Bulletin**

SB # VE150B\_SB\_002

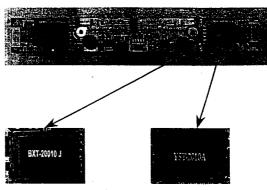


Figure 2. Figure 3.

BXT – Transformer with reliability problem. Figure 3.

YST – Known reliable transformer.



Figure 1.

Sampo Backlight Inverter Board

Figure 4.
All new Sampo backlight inverter boards produced in year 2000 utilize "YST" transformer.



Figure 5. Chi-Sam Backlight Inverter Board

Please contact the Quality Assurance Department at (909) 444-8727 for further information.

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# **Service Bulletin**

SB # VE150B\_SB\_001

	Issue Date: May 31, 2000	ECO#:
Model #: VE150B	Cut-in S/N, S/N Range, or Date: All units affected.	
Subject: OSD "always on" condition		

#### Purpose:

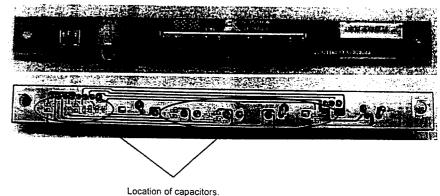
To resolve issue with solder fractures with the capacitors on the control PCB.

Service Disposition:	· · · · · · · · · · · · · · · · · · ·
<ul> <li>□ Recall.</li> <li>☑ Unit under service and service inventory.</li> <li>□ Unit under service only.</li> <li>□ Technician judgement for unit under service (symptomatic).</li> </ul>	

#### Change(s)/Countermeasure(s):

Part Location	Part Description	Part Number	Repair Action	Comment	Failure Code
C 701 thru C714	0.1µF 50V Z chip capacitor		Touch up these capacitors on the control PCB with solder.		VO0 or P00

Photos of top and bottom side of control PCB.



Please contact the Quality Assurance Department at (909) 444-8727 for further information.

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